The SSDF Chess Engine Rating list, 2019-12

Article

Accepted Version

SSDF Top 50 list as published in ICGA_J

The SSDF Chess Engine Rating List, 2019-12

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#	Name	Rating	+ / –	Games	Win %	Against	Notes
01	Stockfish 10 x64 1800X 3.6 GHz	3529	30 / 28	680	72%	3366	A, Tord Romstad, Marco Costalba & Joona Kiiski; 22-18 v #02
02	Stockfish 9 x64 1800X 3.6 GHz	3486	28 / 26	802	71%	3327	20-20 v #03, 21½-18½ v #05, 23½-16½ v #06, 21½-18½ v #08
03	Komodo 13.1 x64 1800X 3.6 GHz	3470	32 / 30	520	64%	3374	NE; A, Mark Lefler and GM Larry Kaufman; 18-22 v #01
04	Komodo 13.02 x64 1800X 3.6 GHz	3465	30 / 29	600	65%	3354	17½-22½ v #01, 20½-19½ v #05, 22½-17½ v #06
05	Komodo 12.3 x64 1800X 3.6 GHz	3454	27 / 26	760	66%	3336	15½-24½ v #01, 18½-21½ v #02, 19½-20½ v #04, 20-20 v #06
06	Stockfish 9 x64 Q6600 2.4 GHz	3449	32 / 31	480	56%	3401	14-26 v #01, 16½-23½ v #02, 18-22 v #03, 17½-22½ v #04
07	Komodo 12.3 x64 Q6600 2.4 GHz	3441	38 / 36	360	60%	3364	15½-24½ v #01, 17½-22½ v #03, 17½-22½ v #04, 20-20 v #06
08	Stockfish 8 x64 1800X 3.6 GHz	3431	23 / 21	1260	75%	3241	18½-21½ v #02, 20-20 v #03, 19-21 v #04, 17½-22½ v #05
09	Stockfish 8 x64 Q6600 2.4 GHz	3412	31 / 30	560	65%	3302	13½-26½ v #01, 13½-26½ v #02, 16½-23½ v #03, 18-22 v #04
10	Komodo 13.02 MCTS x64 1800X 3.6 GHz	3401	31 / 30	520	57%	3349	16½-23½ v #01, 18½-21½ v #02, 17½-22½ v #04, 18-22 v #06
11	Komodo 11.01 x64 1800X 3.6 GHz	3394	22 / 21	1254	70%	3247	11½-28½ v #01, 15-25 v #02, 18-22 v #03, 18-22 v #05
12	Deep Shredder 13 x64 1800X 3.6 GHz	3358	24 / 24	880	64%	3256	A, Stefan Meyer-Kahlen; 13-27 v #02, 14-26 v #04, 12-28 v #05
13	Booot 6.3.1 x64 1800X 3.6 GHz	3354	24 / 23	843	51%	3345	A, Alex Morozov; 10-30 v #01, 12-28 v #02, 11½-28½ v #03
14	Komodo 11.01 x64 Q6600 2.4 GHz	3343	27 / 27	642	50%	3339	9½-30½ v #01, 11½-28½ v #02, 12½-27½ v #03, 16-24 v #04
15	Komodo 9.1 x64 Q6600 2.4 GHz	3338	20 / 19	1475	72%	3177	8-34 v #02, 13-27 v #05, 14-26 v #08, 11½-28½ v #09
16	Stockfish 6 x64 Q6600 2.4 GHz	3326	21 / 20	1256	69%	3191	7-33 v #02, 14½-25½ v #08, 11½-28½ v #09, 15½-24½ v #11
17	Vajolet2 2.8 x64 1800X 3.6 GHz	3301	61 / 65	123	43%	3351	NE; A, Marco Belli; 7-33 v #01, 12-28 v #08, 1-2 v #13
18	Booot 6.3.1 x64 Q6600 2.4 GHz	3299	30 / 30	520	53%	3271	8-32 v #01, 11-29 v #03, 11-29 v #04, 9-31 v #05
19	Deep Shredder 13 x64 Q6600 2.4 GHz	3295	24 / 23	884	64%	3192	13-27 v #08, 10-30 v #11, 16½-23½ v #12, 15½-24½ v #15
20	Arasan 21.2 x64 1800X 3.6 GHz	3279	29 / 30	560	40%	3348	A, Jon Dart; 5-35 v #01, 10½-29½ v #03, 9½-30½ v #05
21	Komodo 7 x64 Q6600 2.4 GHz	3269	23 / 23	974	65%	3159	7½-32½ v #02, 11½-28½ v #08. 10½-29½ v #11, 14-26 v #12
22	Komodo 5.1 x64 Q6600 2.4 GHz	3245	22 / 22	1038	64%	3145	13½-26½ v #08, 22½-61½ v #15, 11½-28½ v #16, 20-22 v #19
23	Arasan 21.2 x64 Q6600 2.4 GHz	3235	48 / 52	200	38%	3322	4-36 v #01, 4½-35½ v #04, 7-33 v #06, 25-15 v #32
24	Wasp 3.5 x64 1800X 3.6 GHz	3230	31 / 33	520	32%	3359	A, John Stanback; 5-35 v #01, 5-35 v #02, 4½-35½ v #03
25	Deep Hiarcs 14 1800X 3.6 GHz	3217	26 / 26	720	40%	3290	A, Mark Uniacke; 7-33 v #02, 7½-32½ v #03, 5½-34½ v #05
26	Wasp 3 x64 1800X 3.6 GHz	3214	24 / 25	842	39%	3292	5-35 v #01, 6½-33½ v #02, 6-34 v #04, 9½-30½ v #05
27	Stockfish 3 x64 Q6600 2.4 GHz	3202	19 / 18	1420	61%	3127	4½-35½ v #08, 15½-34½ v #11, 6½-33½ v #12
28	Deep Rybka 4 x64 Q6600 2.4 GHz	3199	20 / 19	1368	65%	3093	A, IM Vasil Rajlich; 5½-34½ v #07, 9½-30½ v #11, 8-32 v #15
29	Deep Rybka 3 x64 Q6600 2.4 GHz	3194	22 / 21	1371	75%	3003	15½-24½ v #22, 21-19 v #27 18-22 v #28, 22½-19½ v #30
30	Deep Hiarcs 14 Q6600 2.4 GHz	3188	19 / 18	1450	61%	3112	9½-30½ v #11, 9-31 v #12, 13½-26½ v #14, 12-28 v #15
31	Chiron 3.01 x64 Q6600 2.4 GHz	3178	27 / 27	656	45%	3215	A, Ubaldo Andrea Farina; 7-33 v #08, 7-33 v #11
32	Wasp 3.5 x64 Q6600 2.4 GHz	3176	41 / 42	280	45%	3205	5½-34½ v #07, 10½-29½ v #16, 15-25 v #23, 18½-21½ v #28
33	Naum 4.2 x64 Q6600 2.4 GHz	3146	21 / 21	1123	60%	3078	A, Alexander Naumov; 13½-26½ v #19, 7½-34½ v #21
34	Deep Junior Yokohama x64 Q6600 2.4 GHz	3126	22 / 22	1010	42%	3184	A, Amir Ban & Shay Bushinsky; 6½-73½ v #08, 6-34 v #09
35	Hiarcs 14 Athlon 1.2 GHz	3100	29 / 29	560	55%	3065	5½-34½ v #09, 7-33 v #15, 9½-30½ v #16, 7-33 v #18
36	Deep Fritz 13 Q6600 2.4 GHz	3097	24 / 24	826	55%	3064	A, Frans Morsch; 9-31 v #21, 13½-26½ v #22, 15½-24½ v #27
37	The Baron 3.43 x64 1800X 3.6 GHz	3091	29 / 31	680	26%	3272	A, Richard Pijl; 2½-37½ v #02, 3½-36½ v #05, 3-37 v #08
38	Revelation 2 Hiarcs 14.1 PXA320 800 MHz	2924	47 / 46	220	55%	2889	7-13 v D Junior 12 on Q6600, 7-13 v Glaurung on Q6600
39	Chessmaster King 3.5 x64 Q6600 2.4 GHz	2860	24 / 25	932	30%	3009	A, Johan de Koning; 5-37 v #33, 8-32 v D Junior 13.3 on Q6600
40	Revelation Hiarcs 13.3 PXA255 500 MHz	2772	57 / 52	177	66%	2661	A, Ruud Martin and Mark Uniacke; 6½-13½ v Zap!Zan
41	Revelation Shredder 12 PXA255 500 MHz	2703	60 / 58	140	56%	2663	A, Ruud Martin and Stefan Meyer-Kahlen; 8-12 v PF4 Hiarcs 13
42	Revelation Rybka 2.2 PXA255 500 MHz	2628	47 / 44	240	62%	2545	A, Ruud Martin and IM V. Rajlich; 9½-10½ v Hiarcs 9
43	Revelation Deep Sjeng 3 PXA255 500 MHz	2599	68 / 76	100	37%	2691	A, Gian-Carlo Pascutto [q.v. LC0]; 4½-15½ v PF4 Naum 4.2
44	ChessGenius 3 ZTE Apex3 ARM A53 1.3 GHz	2457	75 / 68	100	62%	2376	A, Richard Lang; 6-14 v PF4 Crafty 23
45	Revelation Ruffian 2.1 PXA255 500 MHz	2352	68 / 71	100	45%	2388	A, Per-Ola Valfridsson; 2-18 v Pocket Fritz 3H
46	TASC R30 v. 2.5 ARM6 30 MHz	2274	42 / 38	343	69%	2137	A, Johan de Koning; ½-1½ v Rebel 8.0 on P90
47	Millennium ChessGenius Excl. M7 300 MHz	2251	71 / 68	101	55%	2211	NE; A, Richard Lang; 6½-13½ v Rebel 9 on P90
48	Millennium ChessGenius Pro M4 120 MHz	2166	59 / 54	160	63%	2070	A, Richard Lang; 5½-14½ v Revelation Ruffian
49	Millennium ChessGenius ARM M4 48 MHz	2076	51 / 47	211	63%	1986	A, Richard Lang; 7-13 v MCG Pro, 8-12 v Montreux
50	Mephisto London 68000 12 MHz	2008	59 / 58	140	53%	1983	A, Richard Lang; 6½-13½ v MCG Pro, 10-10 v MCG

Fig. 1. The recently tested 'Selected 50' from SSDF rating list '2019-12' of 2019-12-10, q.v., https://ssdf.bosjo.net.[2, 3, 4]

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[2] 'Games' ≡ the number of games, played at '40m/2hr + 20m/1hr', on which the rating is based. 'Against' ≡ average rating of opponents. '+' and '-' denote upper/lower 95%-confidence intervals. 'A' ≡ author(s), 'NE' ≡ new entrant.

[3] Latest platform: AMD Ryzen 7 1800X, 8-core @ 3.6GHz, 16GB RAM, SSD, 6-man Syzygy EGTs.

[4] Fuller SSDF data including the '50' and long lists' match detail is available at http://centaur.reading.ac.uk/87834/.